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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * Welcome to STN International * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Sep 17 IMSworld Pharmaceutical Company Directory name change
 to PHARMASEARCH
NEWS 3 Oct 09 Korean abstracts now included in Derwent World Patents
 Index
NEWS 4 Oct 09 Number of Derwent World Patents Index updates increased
NEWS 5 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS 6 Oct 22 Over 1 million reactions added to CASREACT
NEWS 7 Oct 22 DGENE GETSIM has been improved
NEWS 8 Oct 29 AAASD no longer available
NEWS 9 Nov 19 New Search Capabilities USPATFULL and USPAT2
NEWS 10 Nov 19 TOXCENTER(SM) - new toxicology file now available on STN
NEWS 11 Nov 29 COPPERLIT now available on STN
NEWS 12 Nov 29 DWPI revisions to NTIS and US Provisional Numbers
NEWS 13 Nov 30 Files VETU and VETB to have open access
NEWS 14 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 15 Dec 10 DGENE BLAST Homology Search
NEWS 16 Dec 17 WELDASEARCH now available on STN
NEWS 17 Dec 17 STANDARDS now available on STN
NEWS 18 Dec 17 New fields for DPCI
NEWS 19 Dec 19 CAS Roles modified
NEWS 20 Dec 19 1907-1946 data and page images added to CA and CApplus
NEWS 21 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web
NEWS 22 Jan 25 Searching with the P indicator for Preparations

NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,
 CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
 AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

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FILE 'REGISTRY' ENTERED AT 16:16:13 ON 27 JAN 2002
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STRUCTURE FILE UPDATES: 25 JAN 2002 HIGHEST RN 387333-72-4
 DICTIONARY FILE UPDATES: 25 JAN 2002 HIGHEST RN 387333-72-4

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAplus files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with /P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698, worldwide, or send an e-mail to help@cas.org for further assistance or to receive a credit for any duplicate searches.

```
=> e siltech
E1      2      SILSTAR/BI
E2      1      SILSTOP/BI
E3      17     --> SILTECH/BI
E4      2      SILTEG/BI
E5      1      SILTEK/BI
E6      3      SILTELLURANE/BI
E7      5      SILTEM/BI
E8      1      SILTENZ/BI
E9      1      SILTENZEPI/BI
E10     1      SILTENZEPINE/BI
E11     1      SILTEPL/BI
E12     1      SILTEPLASE/BI
```

```
=> s e3
L1      17     SILTECH/BI
```

```
=> d L1 1-17
```

L1 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2002 ACS

RN 308073-89-4 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones, sulfo-contg. (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Polysiloxanes, sulfo-contg.
OTHER NAMES:
CN Deloxan ASP
CN Siltech Water Soluble Sulfate
CN Sulfo-contg. siloxanes
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 308073-83-8 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones, polyoxypropylene- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Polysiloxanes, polyoxypropylene-
OTHER NAMES:
CN ESS 2410
CN Polyoxypropylene-siloxanes
CN Silicones, polyoxypropylene-
CN Siltech H 1400
CN Siltech H 1600
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 308073-82-7 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones, polyoxyethylene-polyoxypropylene-, block (CA
INDEX NAME)
OTHER CA INDEX NAMES:
CN Polysiloxanes, polyoxyethylene-polyoxypropylene-, block
OTHER NAMES:
CN Polyoxyethylene-polyoxypropylene-siloxanes, block
CN Siltech H 1100
CN Siltech H 1200
CN Siltech H 1300
CN Siltech H 1500
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 308073-79-2 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones, polyoxyethylene- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Polysiloxanes, polyoxyethylene-
OTHER NAMES:
CN Amfilubre
CN Crisvon Assistor N 010
CN DKQ 8-778
CN DKQ 8-779
CN FZ 2104
CN FZ 3771
CN KF 6009
CN L 5303
CN L 5307
CN Poly(oxyethylene)- siloxanes and Silicones
CN Polyoxyethylene-polysiloxanes
CN Polyoxyethylene-siloxanes
CN Polysiloxanes, poly(oxyethylene)-
CN Sansilicone M 84
CN SH 3700
CN Silicones, poly(oxyethylene)-
CN Siloxanes, poly(oxyethylene)-
CN Siltech H 1000
CN X 22-4822
CN Y 7006
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 308072-86-8 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones, di-Me, polyoxyethylene-polyoxypropylene- (CA
INDEX NAME)
OTHER CA INDEX NAMES:
CN Polysiloxanes, di-Me, polyoxyethylene-polyoxypropylene-
OTHER NAMES:
CN Di-Me, polyoxyethylene-polyoxypropylene-siloxanes
CN F 1-009-02
CN F 1-009-03
CN F 1-009-15
CN F 373
CN FZ 2165
CN KF 335A
CN KF 352A
CN KF 6012
CN L 540
CN L 548
CN L 550

CN L 5710
CN L 5720
CN L 6202
CN Silicones, di-Me, polyoxyethylene-polyoxypropylene-
CN Siltech T 706
CN Siltech T 710
CN Siltech T 750
CN Siltech T 790
CN Silwet FZ 2165
CN Silwet L 7657
CN Tegopren 5830
CN Tegopren 5830A
CN Tegopren 5830B
CN TSF 4440
CN TSF 4450
CN TSF 4452
CN Y 12230
MF Unspecified
CI MAN, CTS
SR CA

Silwet L-7602?

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 308072-83-5 REGISTRY *

* Use of this CAS Registry Number alone as a search term in other STN files may

result in incomplete search results. For additional information, enter HELP RN* at an online arrow prompt (=>).

CN Siloxanes and Silicones, di-Me, polyoxyethylene-, amino-contg., quaternized (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Polysiloxanes, di-Me, polyoxyethylene-, amino-contg., quaternized

OTHER NAMES:

CN Siltech Amine 65

MF Unspecified

CI MAN, CTS

SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 308072-09-5 REGISTRY *

* Use of this CAS Registry Number alone as a search term in other STN files may

result in incomplete search results. For additional information, enter HELP RN* at an online arrow prompt (=>).

CN Siloxanes and Silicones, di-Me, amino-contg. (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Polysiloxanes, di-Me, amino-contg.

OTHER NAMES:

CN ALE 56

CN Amino-contg. di-Me silicones

CN Amino-contg. di-Me siloxanes

CN AR 4136A

CN Belsil ADM 6057E

CN BS 1306

CN BY 16-849

CN BY 16-872

CN BY 16-904

CN CSF
CN CSF (siloxane)
CN Dow Corning 2-8707
CN Dow Corning 8025
CN F 756
CN FS 8417
CN Genesee GP-134
CN Genesee GP-4
CN Genesee GP-6
CN JG 4008A
CN KF 859
CN KF 862
CN KF 876A
CN Magnasoft Plus
CN Polon MF 14EC
CN Polon MF 51
CN Rhodorsil 10646
CN SF 1921
CN SF 8417
CN Silicones, amino, di-Me
CN Silicones, di-Me, amino-contg.
CN Siligen SIO
CN Siloxanes, di-Me, amino-contg.
CN Siltech AF
CN Siltech AF-LV
CN Silwet FZ 319
CN SLJ 1367
CN SM 2059
CN SSF
CN SSF (silicone)
CN TSL 9346
CN Ultratex EMJ
CN Wacker 1311
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 308071-37-6 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones, carboxyalkyl Me, di-Me,
[(carboxyalkyl)dimethylsilyl]oxy]-terminated (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Polysiloxanes, carboxyalkyl Me, di-Me,
[(carboxyalkyl)dimethylsilyl]oxy]-
terminated
OTHER NAMES:
CN Carboxyalkyl Me, di-Me siloxanes, [(carboxyalkyl)dimethylsilyl]oxy]-
terminated
CN Siltech CT 701
CN Siltech CT 706
CN Siltech CT 710
CN Siltech CT 750
CN Siltech CT 790
MF Unspecified

CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 308071-36-5 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones, carboxyalkyl Me, di-Me (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Polysiloxanes, carboxyalkyl Me, di-Me
OTHER NAMES:
CN Carboxyalkyl Me, di-Me siloxanes
CN Siltech C 1000
CN Siltech C 1100
CN Siltech C 1200
CN Siltech C 1300
CN Siltech C 1400
CN Siltech C 1500
CN Siltech C 1600
CN Siltech C 1700
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 229981-91-3 REGISTRY
CN Siltech PR 1145 (9CI) (CA INDEX NAME)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 70131-67-8 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones, di-Me, hydroxy-terminated (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Polysiloxanes, di-Me, hydroxy-terminated
OTHER NAMES:
CN Baysilone C 0.7
CN Di-Me hydroxy-terminated siloxanes
CN FM-D 425
CN FM-DA 26
CN Hydroxy-terminated di-Me siloxanes
CN PS 195
CN PS 339.7

CN PS 345.5
CN Q 4-2737
CN RF 5000
CN Silanol-terminated di-Me siloxanes
CN Siltech S 700
CN Silwet PC 90
CN X 21-22-160AS
CN X 22-160A
CN X 22-160B
CN X 22-16AS
DR 57571-37-6, 63148-60-7
MF Unspecified
CI PMS, MAN, CTS
PCT Manual registration
LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, MSDS-OHS, PROMT,
RTECS*, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 68037-59-2 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones, di-Me, Me hydrogen (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Polysiloxanes, di-Me, Me hydrogen
OTHER NAMES:
CN AE 151
CN CHS 121
CN Di-Me, Me hydrogen, trimethylsilyl-terminated siloxanes and silicones
CN Dow Corning 7678
CN FZ 350
CN FZ 3709
CN FZ 3778
CN FZ 3805
CN FZ 3875
CN HMS 071
CN HMS 151
CN HMS 301
CN HMS 501
CN KF 9901
CN KM 2002L1
CN KS 722
CN KSF 484
CN KSG 16
CN KSG 18
CN NM 203
CN Poloncoat E
CN PS 122.5
CN PS 123
CN PS 123.5
CN Rhodorsil 628
CN Silicones, di-Me, Me hydrogen
CN Siloprene U 230
CN Siloxanes, di-Me, Me hydrogen

CN Siltech C 106
CN Siltech D 116
CN Siltech H 345
CN Siltech J 456
CN Siltech XX 456
CN Siltech ZZ 302
CN Syl-off 7678
CN Trimethylsilyl-terminated di-Me, Me hydrogen siloxanes
CN TSF 483
CN V 20
CN V 20 (siloxane)
CN V 58
CN V 58 (silicone)
CN XF 40A1626
CN XF 40A1627
CN XF 40A1635
CN XF 40A1762
CN XF 40A2346
CN XF 40A2349
CN XF 40A2426
CN XF 40A5149
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY
DR 189399-02-8, 191681-21-7, 272111-18-9
MF Unspecified
CI PMS, MAN, CTS
PCT Manual registration
LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, DIOGENES, MSDS-OHS,
USPATFULL
Other Sources: DSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L1 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 63148-53-8 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).
CN Siloxanes and Silicones (CA INDEX NAME)
OTHER NAMES:
CN .alpha.-GEL
CN 100CS
CN 109 Superwash Wool Finish
CN 10E
CN 12000T
CN 1300RTU
CN 1MF
CN 290L
CN 2MF
CN 2MMT
CN 3625LSR
CN 38197VP
CN 51XA561
CN 803TF
CN A 154
CN A 3
CN A 3 (silicone)
CN AB

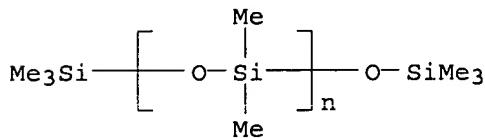
CN Abil B 88163
CN Abil K
CN Abil wax 9800
CN Abil wax 9810
CN Abilwax 9800D
CN Accuglass 311
CN Accuglass 314
CN AD 9003
CN Addithane SI 3193
CN Additol XL 204
CN Additol XW 329
CN ADM 80-1
CN AF 2K
CN AF 8E
CN AF-A
CN AF-C
CN AF-C (siloxane)
CN AF-FG 10
CN Agitan 731
CN Agitan 770
CN Agitan E 256
CN Ahcovel S
CN Ahydrosil K
CN Ahydrosil Na
CN Airex 900
CN Airex 970
CN AK 0.65
CN AK 150
CN AK 2000000
CN AK 350
CN AKOR-B 100
CN Alchem 131
CN Siltech S-HV
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY
DR 12520-54-6, 12520-71-7, 12520-75-1, 12520-81-9, 12771-34-5, 9006-14-8,
9009-82-9, 9049-82-5, 9049-83-6, 11104-26-0, 127830-97-1, 128087-97-8,
128876-23-3, 126903-51-3, 54579-29-2, 125626-52-0, 56451-81-1,
56573-71-8,
56590-65-9, 55466-07-4, 55466-09-6, 59977-84-3, 60617-02-9, 60649-52-7,
120528-72-5, 121382-22-7, 94218-76-5, 98113-28-1, 96477-50-8,
106494-32-0,
113441-16-0, 50927-94-1, 61461-94-7, 66525-77-7, 136753-20-3,
136797-01-8,
37211-44-2, 37224-11-6, 37267-83-7, 37336-07-5, 68084-83-3, 68084-84-4,
138861-23-1, 74623-18-0, 148499-14-3, 79805-77-9, 80147-13-3,
143477-66-1,
152986-69-1, 152986-70-4, 152987-19-4, 152987-47-8, 82347-51-1,
83513-79-5, 86904-54-3, 88651-56-3, 39281-78-2, 39387-22-9, 42612-32-8,
53025-86-8, 53168-57-3, 99638-12-7, 176429-98-4, 179530-21-3,
179607-37-5,
184842-93-1, 184842-94-2, 184851-88-5, 188571-95-1, 188572-25-0,
189767-42-8, 190856-89-4, 191681-66-0, 197099-18-6, 202009-50-5,
204207-14-7, 215513-13-6, 216974-20-8, 217087-76-8, 222726-47-8,
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MF Unspecified
CI PMS, MAN, CTS
PCT Manual registration
LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMCATS,
CHEMLIST, CIN, DETHERM*, DIOGENES, EMBASE, IFICDB, IFIPAT, IFIUDB,

MEDLINE, PDLCOM*, RTECS*, TOXCENTER, TOXLIT, TULSA, USPATFULL
(*File contains numerically searchable property data)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 42557-10-8 REGISTRY
CN Poly[oxy(dimethylsilylene)], .alpha.- (trimethylsilyl)- .omega.- [(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN .alpha., .omega.- (Trimethylsilyl) polydimethylsiloxane
CN .alpha., .omega.- Bis(trimethylsiloxy)polydimethylsiloxane
CN .alpha., .omega.- Bis(trimethylsilyl)poly(dimethylsiloxane)
CN 10000C/S
CN 1000C/S
CN 100C/S
CN 5000C/S
CN Abil 10
CN Abil 20
CN Abil 30
CN Abil 350
CN AK 10
CN AK 10 (silicone)
CN AK 1000
CN AK 10000
CN AK 100000
CN AK 1000000
CN AK 20
CN AK 20 (silicone)
CN AK 35
CN AK 35 (silicone)
CN Amersil L 45
CN Baysilone M
CN Baysilone M 100
CN Baysilone M 1000
CN Baysilone M 10000
CN Baysilone M 120
CN Baysilone M 3
CN Baysilone M 50
CN Baysilone M 500
CN BY 16-140
CN BY 22-029
CN BY 22-050A
CN DC 200
CN DC 200/50
CN DC 280A
CN DC Silicone Fluid 200
CN Dimethyl siloxane, trimethylsilyl-terminated
CN Dimethylsilanediol homopolymer, sru, .alpha.-, .omega.- trimethylsilyl-terminated
CN Dimethylsilanediol homopolymer, sru, trimethylsilyl-terminated
CN Dimethylsilanediol polymer, sru, trimethylsilyl-terminated
CN Dimethylsiloxane, SRU, trimethylsiloxy-terminated
CN Dow Corning 200
CN Dow Corning 200/350
CN Dow Corning 200/5
CN E 100
CN E 100 (siloxane)

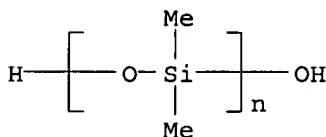
CN Foamex AD 100
 CN GE-SF 96
 CN Gomme FB
 CN Siltech F 10000
 CN Siltech F 500
 CN Siltech F 60000
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
 DISPLAY
 DR 12684-12-7, 12751-46-1, 12778-18-6, 9062-40-2, 134096-48-3, 37220-77-2,
 37221-45-7, 83047-13-6, 157566-53-5, 186137-74-6, 187412-88-0,
 187758-27-6, 190330-95-1, 191428-28-1
 MF (C₂ H₆ O Si)_n C₆ H₁₈ O Si₂
 CI PMS, COM
 PCT Polyether, Polyether only
 LC STN Files: AGRICOLA, CA, CAPLUS, CHEMLIST, DETHERM*, IFICDB, IFIPAT,
 IFIUDB, NIOSHTIC, RTECS*, TOXCENTER, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)



1060 REFERENCES IN FILE CA (1967 TO DATE)
 44 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1061 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2002 ACS
 RN 31692-79-2 REGISTRY
 CN Poly[oxy(dimethylsilylene)], .alpha.-hydro-.omega.-hydroxy- (8CI, 9CI)
 (CA INDEX NAME)
 OTHER NAMES:
 CN .alpha.,.omega.-Dihydroxydimethylpolysiloxane
 CN .alpha.,.omega.-Dihydroxypoly(dimethylsiloxane)
 CN .alpha.-Hydro-.omega.-hydroxypoly(dimethylsiloxane)
 CN .alpha.-Hydro-.omega.-hydroxypoly[oxy(dimethylsilylene)]
 CN 48V135000
 CN 48V175000
 CN Baysilone T 5
 CN BY 16-873
 CN CT 80000
 CN DC 1669
 CN DC 1784
 CN DC 2-1391
 CN DC 2-1766
 CN DC 2-1784
 CN DC 2-1865
 CN DC 2-1870
 CN DC 3-0133
 CN Dihydroxypolydimethylsiloxane
 CN Dimethiconol
 CN Dimethylhydroxysilyl-terminated polydimethylsiloxane
 CN Dimethylpolysiloxane diol, SRU
 CN Dimethylsilanediol homopolymer, hydroxy-terminated SRU
 CN Dimethylsilanediol homopolymer, silanol-terminated
 CN Dimethylsilanediol homopolymer, sru silanol-terminated
 CN Dimethylsilanediol homopolymer, sru, hydroxy-terminated

CN Dimethylsiloxanediol
 CN DMS-S 12
 CN DMS-S 15
 CN DMS-S 21
 CN DMS-S 27
 CN Dow Corning 1-9770
 CN Dow Corning 1111
 CN Dow Corning 1669
 CN Dow Corning 1784
 CN Dow Corning 2-1391
 CN Dow Corning 2-1766
 CN Dow Corning 2-1784
 CN Dow Corning 2-1865
 CN Dow Corning 2-1870
 CN Dow Corning 3-0133
 CN Dow Corning 347
 CN Dow Corning Q 1-3563
 CN F 212
 CN Flexibase
 CN FZ 3122
 CN Hydroxy-terminated dimethyl polysiloxane
 CN Hydroxy-terminated dimethylsilanediol homopolymer, sru
 CN Hydroxy-terminated dimethylsiloxane, sru
 CN Hydroxy-terminated poly(dimethylsiloxane)
 CN Hydroxy-terminated polydimethylsiloxane, SRU
 CN Siltech E 2170
 CN Siltech S 701
 CN Siltech S 706
 CN Siltech S 710
 CN Siltech S 750
 CN Siltech S 790
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
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 DR 165118-62-7, 12296-62-7, 175017-95-5, 59787-80-3, 156787-83-6,
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 204757-42-6, 210769-89-4, 218129-66-9, 221662-14-2, 232258-89-8,
 235756-64-6, 256341-29-4, 287488-28-2, 292163-62-3, 350048-42-9,
 371961-21-6
 MF (C₂ H₆ O Si)_n H₂ O
 CI PMS, COM
 PCT Polyether, Polyether only
 LC STN Files: ADISNEWS, BIOSIS, CA, CAPLUS, CHEMCATS, CIN, IFICDB, IFIPAT,
 IFIUDB, MEDLINE, PROMT, TOXCENTER, TOXLIT, USPATFULL



811 REFERENCES IN FILE CA (1967 TO DATE)
 140 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 814 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2002 ACS
 RN 26403-67-8 REGISTRY
 CN Poly[oxy(methylsilylene)], .alpha.-.(trimethylsilyl)-.omega.-
 [(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly[oxy(methylsilylene)], .alpha.- (trimethylsilyl)-.omega.- (trimethylsiloxy) - (8CI)

OTHER NAMES:

CN

.alpha.- (Trimethylsilyl)-.omega.- (trimethylsiloxy) poly[oxy(methylsilylene)]

CN 2,4,6,8,-Tetramethylcyclotetrasiloxane homopolymer, sru, trimethylsilyl-terminated

CN 36HC

CN Baysilone MH 15

CN Baysilone MH 4

CN Bis(trimethylsilyl)-terminated poly(hydrogen methyl siloxane)

CN DC 1107

CN Dichloromethylsilane hydrolytic homopolymer, trimethylsilyl-terminated

SRU

CN Ditrimethylsilyl-terminated methysilanediol homopolymer

CN Dow Corning 1107

CN Drypon 600

CN G 456

CN Glo-Pel S 50

CN H 400

CN H 400 (siloxane)

CN H-Siloxan

CN KF 99

CN Methyl hydrogen siloxane, trimethylsilyl-terminated

CN Methyl siloxane, trimethylsilyl-terminated

CN Methylhydrogensilanediol homopolymer, SRU, trimethylsilyl-terminated

CN Methylsilanediol homopolymer, sru, trimethylsiloxy-terminated

CN Methylsilanediol homopolymer, sru, trimethylsilyl-terminated

CN MH 15

CN Poly[oxy(methylsilylene)], trimethylsilyl-terminated

CN PS 118

CN PS 120

CN PS 120 (siloxane)

CN PS 122

CN Rhodorsil H 68

CN Rhoximat H 68

CN Rhoximat HD 879

CN Siltech G 456

CN Syl-off 7048

CN Trimethylsilyl-terminated methyl hydrogen siloxane

CN Trimethylsilyl-terminated methysilanediol homopolymer, sru

CN Trimethylsilyl-terminated poly(methysilanediol)

CN TSF 484

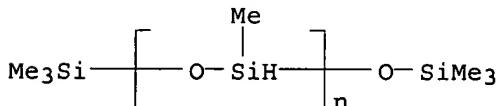
DR 99893-34-2, 223673-24-3, 232258-87-6

MF (C H₄ O Si)_n C₆ H₁₈ O Si₂

CI PMS, COM

PCT Polyether, Polyether only

LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, IFICDB, IFIPAT, IFIUDB, PROMT, TOXCENTER, TOXLIT, USPATFULL



183 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
552 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN 9016-00-6 REGISTRY
CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 401N
CN A 50
CN A 50 (silicone)
CN A 80R
CN Accuglass 210
CN Accuglass 211
CN Accuglass 305
CN AF 60
CN AF 60 (siloxane)
CN AF 72
CN AF 75
CN AF 9000
CN AK 100
CN AK 100 (silicone)
CN AK 300000
CN AK 50
CN AK 50 (siloxane)
CN AK 500
CN AK 5000
CN AK 750
CN Akvastop
CN Antaphron NM 42
CN Antifoam FD 62
CN Aquasil E
CN ASI 100 Methyl
CN ASP 3
CN ASP 3 (silicone)
CN AV 1000
CN B 160-40
CN Baysilone M 50EL
CN Baysilone MA
CN BIO-PSA Q 7-4301
CN BW 400
CN BY 16-801
CN BY 16-817
CN BY 22-064
CN BY 27-003
CN BY 27-007
CN CF 1241
CN Chaline Buruba 520C
CN CP-Sil 5
CN CT 89E
CN CY 52-111
CN DB 1
CN DB 1 (silicone)
CN DC 2-1184
CN DC 2-1691
CN DC 225
CN DC 6-1104
CN DC-MDX 4-4139
CN Siltech F 100
CN Siltech F 1000

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for

DISPLAY

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9087-48-3, 9087-49-4, 53239-64-8, 54351-38-1, 54351-90-5, 58391-68-7,
56730-54-2, 57486-07-4, 57679-15-9, 123243-00-5, 123515-75-3, 60440-54-2,
51569-26-7, 51888-90-5, 51910-51-1, 60842-63-9, 37200-44-5, 37221-89-9,
37340-53-7, 141093-32-5, 90250-23-0, 39457-57-3, 39476-41-0, 52232-96-9,
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231934-55-7

MF (C₂ H₆ O Si)n

CI PMS, COM

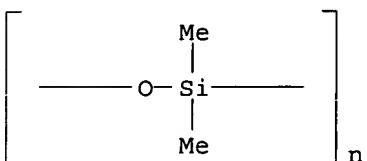
PCT Polyether, Polyether only

LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CEN,
CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, ENCOMPLIT, ENCOMPLIT2,

ENCOMPPAT,

ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, NIOSHTIC,
PIRA, PROMT, RTECS*, TOXCENTER, TOXLIT, USPATFULL

(*File contains numerically searchable property data)



6361 REFERENCES IN FILE CA (1967 TO DATE)

902 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

6377 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 32.78 | 32.93 |

FULL ESTIMATED COST

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FILE COVERS 1907 - 27 Jan 2002 VOL 136 ISS 5
FILE LAST UPDATED: 25 Jan 2002 (20020125/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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```
=> s 308072-86-8/rn
      0 308072-86-8
      0 308072-86-8D
L2      0 308072-86-8/RN
          (308072-86-8 (NOTL) 308072-86-8D )
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| | | | |
|---------------------|----------------------|------------------|---------------|
| => file registry | COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| | | 3.59 | 36.52 |
| FULL ESTIMATED COST | | | |

FILE 'REGISTRY' ENTERED AT 16:20:12 ON 27 JAN 2002
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STRUCTURE FILE UPDATES: 25 JAN 2002 HIGHEST RN 387333-72-4
DICTIONARY FILE UPDATES: 25 JAN 2002 HIGHEST RN 387333-72-4

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAplus files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with /P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PREP role indicator were not affected.

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receive a credit for any duplicate searches.

=> s 308072-86-8/rn
L3 1 308072-86-8/RN

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
0.32 36.84

FILE 'CAPLUS' ENTERED AT 16:20:36 ON 27 JAN 2002
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FILE COVERS 1907 - 27 Jan 2002 VOL 136 ISS 5
FILE LAST UPDATED: 25 Jan 2002 (20020125/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

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=> s L3
L4 0 L3

=> file registry
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
0.34 37.18

FILE 'REGISTRY' ENTERED AT 16:20:49 ON 27 JAN 2002
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STRUCTURE FILE UPDATES: 25 JAN 2002 HIGHEST RN 387333-72-4
DICTIONARY FILE UPDATES: 25 JAN 2002 HIGHEST RN 387333-72-4

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAplus files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with /P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698, worldwide, or send an e-mail to help@cas.org for further assistance or to receive a credit for any duplicate searches.

=> d L3

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 308072-86-8 REGISTRY *

* Use of this CAS Registry Number alone as a search term in other STN files may

result in incomplete search results. For additional information, enter HELP RN* at an online arrow prompt (>).

CN Siloxanes and Silicones, di-Me, polyoxyethylene-polyoxypropylene- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Polysiloxanes, di-Me, polyoxyethylene-polyoxypropylene-

OTHER NAMES:

CN Di-Me, polyoxyethylene-polyoxypropylene-siloxanes

CN F 1-009-02

CN F 1-009-03

CN F 1-009-15

CN F 373

CN FZ 2165

CN KF 335A

CN KF 352A

CN KF 6012

CN L 540

CN L 548

CN L 550

CN L 5710

CN L 5720

CN L 6202

CN Silicones, di-Me, polyoxyethylene-polyoxypropylene-
CN Siltech T 706
CN Siltech T 710
CN Siltech T 750
CN Siltech T 790
CN Silwet FZ 2165
CN Silwet L 7657
CN Tegopren 5830
CN Tegopren 5830A
CN Tegopren 5830B
CN TSF 4440
CN TSF 4450
CN TSF 4452
CN Y 12230
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

=> e silwax
E1 1 SILVREX/BI
E2 6 SILVUE/BI
E3 6 --> SILWAX/BI
E4 2 SILWEL/BI
E5 1 SILWELL/BI
E6 43 SILWET/BI
E7 1 SILWICK/BI
E8 1 SILWIN/BI
E9 1 SILWOOD/BI
E10 4 SILWORM/BI
E11 28 SILY/BI
E12 22 SILYBI/BI

=> s e3
L5 6 SILWAX/BI

=> d L5 1-6

L5 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2002 ACS
RN 308083-45-6 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (>).
CN Polysiloxanes, di-Me, hydroxy-terminated, diesters with castor-oil fatty
acids (CA INDEX NAME)
OTHER NAMES:
CN Silwax C
MF Unspecified
CI MAN, CTS
SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L5 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2002 ACS
RN 308083-42-3 REGISTRY *
* Use of this CAS Registry Number alone as a search term in other STN files
may

result in incomplete search results. For additional information, enter HELP RN* at an online arrow prompt (=>).

CN Polysiloxanes, di-Me, ethers with polyethylene glycol monostearate (CA INDEX NAME)

OTHER NAMES:

CN Silwax WD-IS

MF Unspecified

CI MAN, CTS

SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L5 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 308083-33-2 REGISTRY *

* Use of this CAS Registry Number alone as a search term in other STN files may

result in incomplete search results. For additional information, enter HELP RN* at an online arrow prompt (=>).

CN Polysiloxanes, di-Me, Me hydrogen, polyoxyalkylene-, dilaurates (CA INDEX

NAME)

OTHER NAMES:

CN Silwax WS-L

MF Unspecified

CI MAN, CTS

SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L5 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 308072-05-1 REGISTRY *

* Use of this CAS Registry Number alone as a search term in other STN files may

result in incomplete search results. For additional information, enter HELP RN* at an online arrow prompt (=>).

CN Siloxanes and Silicones, di-Me, amide group-contg. (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Polysiloxanes, di-Me, amide group-contg.

OTHER NAMES:

CN Amide group-contg. di-Me siloxanes

CN Di-Me siloxanes, amide group-contg.

CN Silwax DCA 100

MF Unspecified

CI MAN, CTS

SR CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L5 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 247028-81-5 REGISTRY

CN Poly[oxy(dimethylsilylene)], .alpha.-[(1-oxooctadecyl)-.omega.-[(1-oxooctadecyl)oxy]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Dimethiconol stearate

CN Silwax S

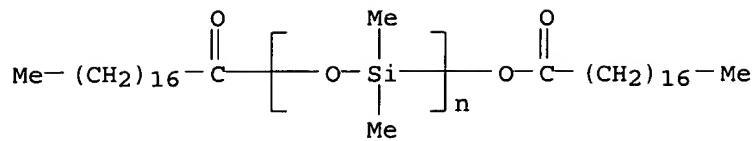
MF (C₂ H₆ O Si)_n C₃₆ H₇₀ O₃

CI PMS

PCT Polyether, Polyether only

SR CA

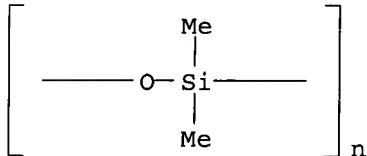
LC STN Files: CA, CAPLUS, CHEMLIST, TOXCENTER, TOXLIT



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

LS ANSWER 6 OF 6 REGISTRY COPYRIGHT 2002 ACS
 RN 9016-00-6 REGISTRY
 CN Poly[oxy(dimethylsilylene)] (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 401N
 CN A 50
 CN A 50 (silicone)
 CN A 80R
 CN Accuglass 210
 CN Accuglass 211
 CN Accuglass 305
 CN AF 60
 CN AF 60 (siloxane)
 CN AF 72
 CN AF 75
 CN AF 9000
 CN AK 100
 CN AK 100 (silicone)
 CN AK 300000
 CN AK 50
 CN AK 50 (siloxane)
 CN AK 500
 CN AK 5000
 CN AK 750
 CN Akvastop
 CN Antaphron NM 42
 CN Antifoam FD 62
 CN Aquasil E
 CN ASI 100 Methyl
 CN ASP 3
 CN ASP 3 (silicone)
 CN AV 1000
 CN B 160-40
 CN Baysilone M 50EL
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 CN BY 16-817
 CN BY 22-064
 CN BY 27-003
 CN BY 27-007
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 CN Chaline Buruba 520C
 CN CP-Sil 5
 CN CT 89E
 CN CY 52-111
 CN DB 1

CN DB 1 (silicone)
 CN DC 2-1184
 CN DC 2-1691
 CN DC 225
 CN DC 6-1104
 CN DC-MDX 4-4139
 CN Silwax WS
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
 DISPLAY
 DR 12619-98-6, 12620-09-6, 12680-27-2, 12680-28-3, 9049-10-9, 9063-73-4,
 9087-48-3, 9087-49-4, 53239-64-8, 54351-38-1, 54351-90-5, 58391-68-7,
 56730-54-2, 57486-07-4, 57679-15-9, 123243-00-5, 123515-75-3, 60440-54-2,
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 37340-53-7, 141093-32-5, 90250-23-0, 39457-57-3, 39476-41-0, 52232-96-9,
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 231934-55-7
 MF (C₂ H₆ O Si)n
 CI PMS, COM
 PCT Polyether, Polyether only
 LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CEN,
 CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, ENCOMPLIT, ENCOMPLIT2,
 ENCOMPPAT,
 ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, NIOSHTIC,
 PIRA, PROMT, RTECS*, TOXCENTER, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)



6361 REFERENCES IN FILE CA (1967 TO DATE)
 902 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 6377 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 16:16:01 ON 27 JAN 2002)

FILE 'REGISTRY' ENTERED AT 16:16:13 ON 27 JAN 2002
E SILTECH

L1 17 S E3

FILE 'CAPLUS' ENTERED AT 16:19:39 ON 27 JAN 2002

L2 0 S 308072-86-8/RN

FILE 'REGISTRY' ENTERED AT 16:20:12 ON 27 JAN 2002

L3 1 S 308072-86-8/RN

FILE 'CAPLUS' ENTERED AT 16:20:36 ON 27 JAN 2002

L4 0 S L3

FILE 'REGISTRY' ENTERED AT 16:20:49 ON 27 JAN 2002
E SILWAX

L5 6 S E3

=> file stng
COST IN U.S. DOLLARS

FULL ESTIMATED COST

| | |
|------------|---------|
| SINCE FILE | TOTAL |
| ENTRY | SESSION |
| 18.90 | 56.08 |

FILE 'STNGUIDE' ENTERED AT 16:28:14 ON 27 JAN 2002
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LAST RELOADED: Jan 25, 2002 (20020125/UP).

New York SCC

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Tech Notes

The Silicone Specialties for Personal Care**by Anthony J. O'Lenick, Jr., Siltech, Inc.**

Formulators in the personal care field realize that there are a vast number of traditional surfactants from which to choose in the preparation of new products. There are nonionic, cationic, amphoteric and anionic products available; and within each class there are numerous products. A neophyte formulator might ask, "Why are there so many types of surfactants?" The answer is clear - the structure of the surfactant determines the functionality.

It is therefore not surprising that a series of surfactants which are based upon silicone as a hydrophobe, that contain other functional groups similar to those seen in traditional surfactants, would be developed. In some instances, silicone is incorporated into a surface active agent, with a polyoxyalkylene portion of the molecule and/or a hydrocarbon portion of the molecule. As will become clear, this results in several unique properties of the surfactant.

Historically, silicone compounds have been available as water-insoluble, oily materials. This has limited the number of silicone compounds that the formulator could use in many applications. Knowing some of the limitations in the use of silicone fluids, it is no surprise that there is a desire to make more functional silicone compounds; silicone compounds which provide the desired softening, conditioning and treatment effects, but are self-emulsifying. The logical place to look for bridging technology is in the surfactant world. Surfactants are materials with an oil-soluble group, generally fatty, and a water-soluble group. If one either includes a silicone group as the hydrophobe or includes a silicone hydrophobe in the molecule, a whole new world of formulator-friendly compounds opens up.

In order to make silicone useful in aqueous systems, there are a variety of emulsions available. The use of an emulsion makes the silicone easier to handle, but there are issues related to emulsion stability that must be addressed. Specifically, the addition of surfactants to the emulsion may shift the HLB and split the emulsion. In addition, emulsions have limited freeze-thaw stability. Finally, there is an equilibrium between the silicone, the emulsifier and the substrate being treated. Often, the emulsifier also has detergent properties and the majority of the silicone ends up in the water.

There are now a wide variety of silicone products, differing both in structure and functional properties, which are available to the formulator. This allows for greater formulation latitude and the creation of products which are optimized for some applications. The use of silicone not merely as an oil phase requires the functionalization of the molecule to make it useful in application areas where a water-soluble product is not appropriate. Too often in the past, the formulator has had to accept many of the drawbacks of the use of silicone oils in the formulation or leave them out altogether. Attempting to use silicone oils and compounds known prior to the 1990's in all applications would be like attempting to use fatty alcohol ethoxylates in all applications. The ability to make silicone formulator-friendly has led to the synthesis of many new silicone-based surfactants. Many of the newer products already in the market contain these materials and more will in the future.

In order to make a surface active molecule, one needs to have both a water-soluble and an oil-soluble portion of the molecule. The traditional oil-soluble portion of the molecule is fatty. The silicone surfactants substitute or add on silicone-based hydrophobicity. This results in materials which have the substantivity, lower irritation, skin feel and other attributes of silicone, in addition to the properties one expects from the fatty surfactant. In molecules where silicone is predominant, the functional attributes of silicone will predominate. If the molecule has both a silicone and fatty hydrophobe present, it will function with the attributes of both of the materials. This allows for the formulation of a wide variety of products that have oil, water, silicone or variable solubilities.

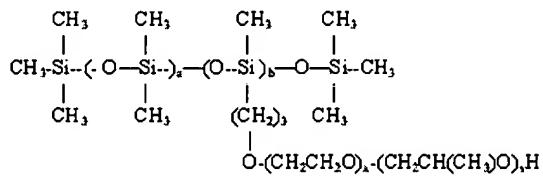
The inclusion of silicone into the surfactant molecule results in an improved compound - one that has substantivity, conditioning and lower irritation than the surfactant alone, and a silicone that is formulator-friendly.

Tech Notes

Dimethicone Copolyols

by Anthony J. O'Lenick, Jr. - Siltech L.L.C.

Throughout the 1990's, dimethicone copolyols (DMC) and their derivatives has been an important and growing class of raw materials used in the personal care market. The term dimethicone copolyol has been adopted by the Cosmetics, Toiletry and Fragrance Association to describe a class of silicone/polyoxyalkylene derivatives. DMC surfactants are a class of compounds that conform to the following general structure:



The nomenclature was developed to reflect the fact that the molecule is a silicone polymer (dimethicone) with a copolymer ("copoly" part) and a hydroxyl functional ("ol" ending). The original concept, while creative, does not give all of the information needed for defining the molecular structure.

Structure/Function Relationship

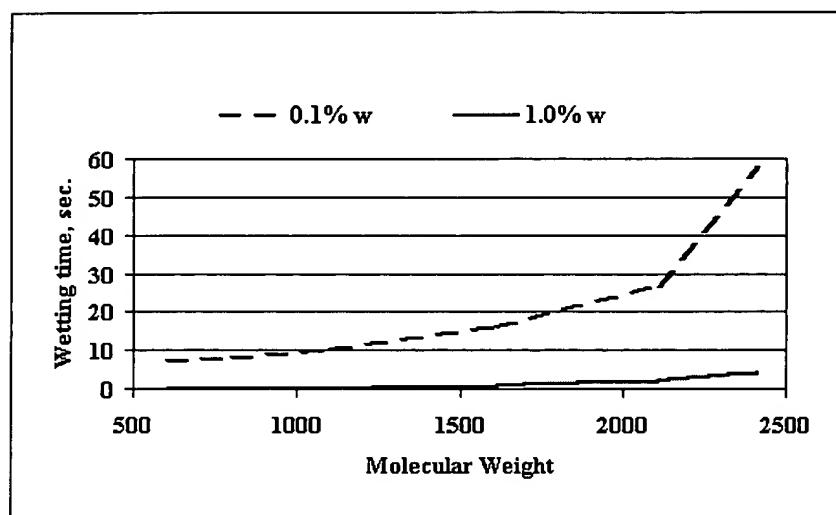
It is very helpful for the formulator to understand the structure/function relationship for the various additives to a formulation. Wetting, conditioning and emulsification properties are directly effected by the structure of the DMC. Two important properties, wetting and irritation to the eyes, are considered here. We evaluated a number of products (Products A-F) for wetting and irritation.

Table 1: Products Evaluated

| Product Designation | Number of "a" units | Number of "b" units | Molecular Weight |
|---------------------|---------------------|---------------------|------------------|
| A | 0 | 1 | 607 |
| B | 0.9 | 1.3 | 808 |
| C | 2.3 | 1.8 | 1108 |
| D | 4.5 | 2.5 | 1610 |
| E | 6.8 | 3.0 | 2111 |
| F | 8.1 | 3.6 | 2412 |

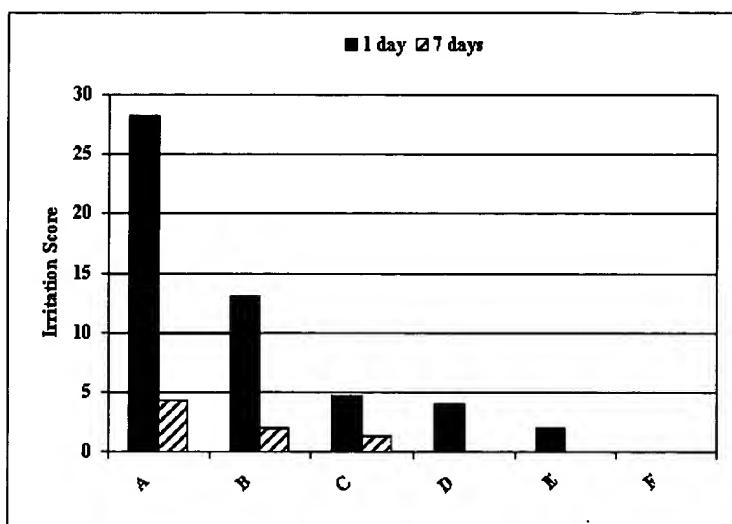
Wetting Properties

It is very desirable to have formulated products efficiently wet the hair and skin, to effectively deliver the desired result. Unfortunately, many DMCs are poor wetting agents. This is due to the fact that most commercial products have a molecular weight in excess of 2500. The evaluation of the effect of molecular weight upon wetting demonstrated that products with desirable wetting speeds could be prepared over a relatively wide range of molecular weights.



Eye Irritation

It is critical that products used in personal care applications also be mild to the eyes and skin. The products evaluated for wetting were likewise evaluated for eye irritation using the "Draize Primary Ocular Irritation Test" [Scale: Moderately Irritating 25.1 - 50, Mildly Irritating 15.1 - 25, Minimally Irritating 2.6 - 15, Practically Non- Irritating 0.6 - 2.5, Non-Irritating 0 - 0.5].



Conclusions

The proper selection of a dimethicone copolyol can result in a product that has a desirable combination of properties in personal care formulations. Notwithstanding the fact that the lower molecular weight DMCs have faster wetting times, products can be easily selected that provide both efficient wetting and low ocular irritation.

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| USPT | Silwet adj (L) | 389 | <u>L19</u> |
| USPT | Silwet adj (FZ or L) | 402 | <u>L18</u> |
| USPT | Silwet adj (FZ or L) | 402 | <u>L17</u> |
| USPT | Silwet | 762 | <u>L16</u> |
| USPT | (dimethicone adj copolyol)[ti] | 11 | <u>L15</u> |
| USPT | dimethicone adj copolyol | 1052 | <u>L14</u> |
| USPT | silwax | 25 | <u>L13</u> |
| USPT | siltech | 170 | <u>L12</u> |
| PGPB,EPAB,DWPI | SiltechT\$ or (siltech adj T) | 0 | <u>L11</u> |
| USPT | SiltechT\$ or (Siltech adj T) | 12 | <u>L10</u> |
| USPT | terminal near3 dimethicone | 16 | <u>L9</u> |
| USPT | end-capped adj dimethicone | 0 | <u>L8</u> |
| USPT | dimethicone near3 (polyol or copolyol) | 1064 | <u>L7</u> |
| USPT | L1 same linear not L3 | 16 | <u>L6</u> |
| USPT | 4184004[pn] | 1 | <u>L5</u> |
| USPT | 4184004 | 38 | <u>L4</u> |
| USPT | L1 near10 linear | 7 | <u>L3</u> |
| USPT | L1 same emulsi\$ | 82 | <u>L2</u> |
| USPT | polyether adj siloxane | 809 | <u>L1</u> |